

stations, and a daily ice summary and forecast issued through the medium of bulletins, radio, telegraph, telephone and newspapers. It is hoped and expected that the new service will be of great value to those interested.

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
ATLANTIC DRAINAGE					
	<i>Feet</i>			<i>Feet</i>	
Saluda: Chappells, S. C.	14	30	30	14.3	30
James: Columbia, Va.	18	27	28	21.0	28
Roanoke: Weldon, N. C.	30	29	(1)	35.7	30
EAST GULF DRAINAGE					
Coosa: Gadsden, Ala.	22	28	(1)	23.9	29
Cahaba: Centerville, Ala.	25	26	26	26.5	26
Black Warrior: Lock, No. 10, Tuscaloosa, Ala.	46	25	(1)	61.8	26
Tombigbee:					
Aberdeen, Miss.	33	25	(1)	39.2	27
Columbus, Miss.	33	27	31	34.4	28
Lock, No. 4, Demopolis, Ala.	39	26	(1)	66.3	Jan. 5
Pearl:					
Edinburg, Miss.	21	31	(1)	(2)	
Jackson, Miss.	20	30	(1)	(2)	
MISSISSIPPI DRAINAGE					
Ohio:					
Dam, No. 44, Leavenworth, Ind.	48	28	(1)	50.8	30-31
Cloverport, Ky.	40	26	(1)	42.8	31
Evansville, Ind.	35	27	(1)	(2)	
Dam, No. 48, Cypress, Ind.	35	28	(1)	(2)	
Mount Vernon, Ind.	35	28	(1)	(2)	
Shawneetown, Ill.	35	29	(1)	(2)	
Guyandotte: Logan, W. Va.	20	22	22	20.2	22
Big Sandy, Levisa Fork: Pikeville, Ky.	35	22	22	41.3	22
Kentucky:					
Hazard, Ky.	20	21	21	25.0	21
Beattyville, Ky.	30	22	23	40.1	22
		26	26	30.6	26
High Bridge, Ky.	30	25	27	34.8	26
Frankfort, Ky.	31	25	29	36.0	26
Green-Big Barren:					
Bowling Green, Ky.	20	22	29	36.5	23
Munfordville, Ky.	28	23	28	36.9	24
Lock, No. 6, Brownsville, Ky.	30	23	(1)	42.5	26
Lock, No. 4, Woodbury, Ky.	33	22	(1)	49.3	27
Lock, No. 2, Rumsey, Ky.	34	25	(1)	42.3	31
Cumberland: Williamsburg, Ky.	22	22	29	26.5	26
Burnside, Ky.	50	22	23	56.3	22
		25	27	59.3	25
Celina, Tenn.	45	23	Jan. 2	57.2	29
Carthage, Tenn.	40	23	Jan. 4	59.1	30
Nashville, Tenn.	40	22	Jan. 7	56.2	Jan. 1
Clarksville, Tenn.	46	22	Jan. 9	60.0	Jan. 2
Lock, F. Eddyville, Ky.	57	26	Jan. 11	68.5	Jan. 5
Tennessee:					
Knoxville, Tenn.	12	26	30	14.0	29
Rockwood, Tenn.	20	25	30	25.2	27
Chattanooga, Tenn.	33	26	(1)	38.4	29-30
Bridgeport, Ala.	24	27	(1)	28.3	30
Guntersville, Ala.	31	27	(1)	38.3	30
Decatur, Ala.	21	29	(1)	23.2	Jan. 1
Florence, Ala.	18	25	(1)	26.6	29
Riverton, Ala.	33	25	(1)	(2)	
Savannah, Tenn.	40	27	(1)	(2)	
Johnsonville, Tenn.	31	27	(1)	(2)	
Holston, N. Fork: Mendota, Va.	8	22	22	16.2	22
Big Pigeon:					
Newport, Tenn.	6	26	26	7.3	26
		29	29	6.2	29
Rogersville, Tenn.	14	23	23	15.0	23
Clinch:					
Speers Ferry, Va.	20	22	22	22.0	22
Clinton, Tenn.	25	23	28	32.3	24
Little Tennessee: McGhee, Tenn.	20	26	26	20.2	26
Hiwassee: Charleston, Tenn.	22	29	29	22.9	29
Elk: Fayetteville, Tenn.	14	24	(1)	25.8	28
Duck: Columbia, Tenn.	30	25	30	35.6	27
Illinois:					
Henry, Ill.	10	(2)	16	14.5	Nov. 22
Peru, Ill.	14	(2)	26	19.9	Nov. 19
Peoria, Ill.	18	(2)	11	21.0	Nov. 23-24
Havana, Ill.	14	(2)	27	18.6	Nov. 29-30
Beardstown, Ill.	14	(2)	31	20.4	Nov. 29-30
Pearl, Ill.	12	(2)	27	16.4	Nov. 30
Black: Corning, Ark.	11	23	(1)	(2)	
Little Red: Dam, No. 1, Judsonia, Ark.				30.0	22-23
Arkansas: Yancopin, Ark.	29	25	(1)	(2)	
Tallahatchie: Swan Lake, Miss.	25	30	(1)	(2)	
Yazoo: Greenwood, Miss.	36	30	(1)	(2)	
Sulphur:					
Ringo Crossing, Tex.	20	21	26	27.1	22
Finley, Tex.	24	24	(1)	29.0	26
Little: Whitecliffs, Ark.	28	23	25	28.9	24
Ouachita:					
Arkadelphia, Ark.	18	22	23	22.5	22
Camden, Ark.	30	24	(1)	38.5	25
WEST GULF DRAINAGE					
Trinity:					
Trinidad, Tex.	28	23	23	28.0	23
		25	Jan. 1	30.9	2C-30
Liberty, Tex.	25	28	31	25.4	28

¹ Continued at end of month.
² Crest occurred after end of month.

³ Continued from last month.
⁴ Estimated.

MEAN LAKE LEVELS DURING DECEMBER, 1926

By UNITED STATES LAKE SURVEY

[Detroit, Mich., January 4, 1927]

The following data are reported in the "Notice to Mariners" of the above date:

Data	Lakes ¹			
	Superior	Michigan and Huron	Erie	Ontario
Mean level during December, 1926:				
Above mean sea level at New York.....	Feet 601.68	Feet 578.26	Feet 571.45	Feet 245.42
Above or below—				
Mean stage of November, 1926.....	-0.07	+0.04	-0.07	+0.18
Mean stage of December, 1925.....	+1.43	+0.72	+1.06	+0.87
Average stage for December, last 10 years.....	-0.34	-1.35	-0.08	+0.23
Highest recorded December stage.....	-1.45	-4.32	-2.08	-2.19
Lowest recorded December stage.....	+1.43	+0.72	+1.06	+1.99
Average departure (since 1860) of the December level from the November level.....	-0.27	-0.22	-0.08	-0.09

¹ Lake St. Clair's level: In December, 1926, 574.05 feet.

EFFECT OF WEATHER ON CROPS AND FARMING OPERATIONS, DECEMBER, 1926

By J. B. KINCER

General summary.—The first part of the month over the northern section of the country was generally unfavorable for outdoor work and seasonal farm operations made little progress. The frequent snows during this period hampered movement of crops to market, but they were favorable in protecting the grain fields against the cold waves which overspread northern areas. In the South, however, the weather permitted farm work to proceed practically unimpeded and winter crops and outdoor operations made good advance.

About the middle of December precipitation was heavy over some eastern districts, but more moisture was still generally needed in most southeastern areas. In the northwest a continuation of cold weather and high winds was unfavorable for livestock, but the frozen ground in the interior valley States made conditions better for gathering the corn that was still out.

Toward the latter part of the month precipitation was heavy and in some places excessive over the lower Ohio and Mississippi Valleys, with much flooding, and much sleet and glaze was reported from the upper Ohio Valley and Lake region. Rains were beneficial in the Middle Atlantic States, but elsewhere the heavy precipitation prevented seasonal farm operations and caused some local damage. A good snow cover for winter grains and grass was reported from most sections and much of the western range was covered. The coldest weather of the season was experienced in some parts of the Great Basin and some injury by cold was indicated from the South.

Small grains.—In the more northern districts east of the Great Plains winter wheat was generally well protected by snow during most of December, but in some western sections the ground was mostly bare. The absence of a good snow cover during the cold wave the second week caused some anxiety, but apparently no material harm resulted. In the southwestern sections of the Wheat Belt there was a continued absence of moisture and some injury resulted to the crop by drifting soil. The mostly mild weather in the South was generally favorable for winter grain crops.

Corn.—During the first part of the month husking and cribbing corn made slow progress due to the continued wet fields and mostly unfavorable weather. There was considerable of this work remaining to be done and husking did not get well under way until the third week, when frozen ground facilitated operations. Cribbing was